

Title (en)

METHOD AND COMPOUNDS FOR INHIBITING THE MCM COMPLEX AND THEIR APPLICATION IN CANCER TREATMENT

Title (de)

VERFAHREN UND VERBINDUNGEN ZUR HEMMUNG DES MCM-KOMPLEXES UND DEREN ANWENDUNG BEI DER BEHANDLUNG VON KREBS

Title (fr)

PROCÉDÉ ET COMPOSÉS POUR L'INHIBITION DU COMPLEXE MCM ET LEUR APPLICATION DANS LE TRAITEMENT ANTICANCÉREUX

Publication

EP 2846807 A4 20160727 (EN)

Application

EP 13787939 A 20130509

Priority

- US 201261644442 P 20120509
- US 2013040287 W 20130509

Abstract (en)

[origin: WO2013169989A1] A method for treating cancer by using an agent which is capable of inhibiting the functionality of the MCM complex, a heterohexameric ring formed from six subunits, in the process of DNA replication and a method of screening for such agents by detecting the locations and functions of the MCM subunits, such as hMcm2 and hMcm6, in cells treated with candidate compounds.

IPC 8 full level

A61P 35/00 (2006.01); **A61K 31/585** (2006.01); **A61K 31/7048** (2006.01)

CPC (source: EP US)

A61K 31/585 (2013.01 - EP US); **A61K 31/7048** (2013.01 - EP US); **A61P 35/00** (2017.12 - EP); **A61P 35/02** (2017.12 - EP); **G01N 33/5011** (2013.01 - EP US); **G01N 33/5044** (2013.01 - US); **G01N 33/574** (2013.01 - US); **G01N 2458/00** (2013.01 - US); **G01N 2500/10** (2013.01 - US)

Citation (search report)

- [XY] US 2009018088 A1 20090115 - VALDES ROLAND JR [US], et al
- [Y] WO 0214343 A1 20020221 - TERNESS PETER [DE], et al
- [XY] JP 2004131435 A 20040430 - MITSUBISHI CHEM CORP
- [Y] WO 2005099747 A1 20051027 - MEDICAL RES COUNCIL [GB], et al
- [I] "DNA Replication and Related Cellular Processes", 26 September 2011, INTECH, ISBN: 978-9-53-307775-8, article SHIRIN KARIMI ET AL: "Mini-Chromosome Maintenance Protein Family: Novel Proliferative Markers - The Pathophysiologic Role and Clinical Application", XP055176617, DOI: 10.5772/18162
- [I] GOUJI TOYOKAWA ET AL: "Minichromosome Maintenance Protein 7 is a potential therapeutic target in human cancer and a novel prognostic marker of non-small cell lung cancer", MOLECULAR CANCER, BIOMED CENTRAL, LONDON, GB, vol. 10, no. 1, 28 May 2011 (2011-05-28), pages 65, XP021100611, ISSN: 1476-4598, DOI: 10.1186/1476-4598-10-65
- [Y] R. WU ET AL: "Cdt1p, through its interaction with Mcm6p, is required for the formation, nuclear accumulation and chromatin loading of the MCM complex", JOURNAL OF CELL SCIENCE, vol. 125, no. 1, 1 January 2012 (2012-01-01), GB, pages 209 - 219, XP055280884, ISSN: 0021-9533, DOI: 10.1242/jcs.094169
- [XY] K-M LAU ET AL: "Minichromosome maintenance proteins 2, 3 and 7 in medulloblastoma: overexpression and involvement in regulation of cell migration and invasion", ONCOGENE, vol. 29, no. 40, 26 July 2010 (2010-07-26), GB, pages 5475 - 5489, XP055280985, ISSN: 0950-9232, DOI: 10.1038/onc.2010.287
- [Y] HIROSHI KIMURA ET AL: "Mouse MCM proteins: complex formation and transportation to the nucleus", GENES TO CELLS, vol. 1, no. 11, 1 November 1996 (1996-11-01), pages 977 - 993, XP055176607, ISSN: 1356-9597, DOI: 10.1046/j.1365-2443.1996.840284.x
- See references of WO 2013169989A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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